

## AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application:

### **Listing of Claims:**

1. (Previously Presented) A vacuum pumping arrangement comprising:
  - a turbomolecular pumping mechanism having a rotor, wherein the rotor comprises a rotor body and rotor blades extending radially outwards from the rotor body; and
  - a molecular drag pumping mechanism connected in series with the turbomolecular pumping mechanism, wherein a rotor of the molecular drag pumping mechanism is affixed to the rotor blades of the turbomolecular pumping mechanism; and
  - wherein the rotor blades of the turbomolecular pumping mechanism are provided with an annular ring, disposed co-axially with the rotor body and positioned between two ends of each of the rotor blades in a radial direction, to which the rotor of the molecular drag pumping mechanism is fixed.
2. (Cancelled)
3. (Previously Presented) The vacuum pumping arrangement as claimed in claim 1, wherein the turbomolecular pumping mechanism has a plurality of stages and the rotor blades of at least the last stage are provided with the annular ring.
4. (Previously Presented) The vacuum pumping arrangement as claimed in claim 1, wherein the rotor of the molecular drag pumping mechanism is supported approximately

half way along the radial length of the rotor blades of the turbomolecular pumping mechanism.

5. (Previously Presented) The vacuum pumping arrangement as claimed in claim 1, wherein the molecular drag pumping mechanism has a plurality of rotors affixed to the rotor blades of the turbomolecular pumping mechanism.

6. (Cancelled)

7. (Previously Presented) The vacuum pumping arrangement as claimed in claim 1, wherein the rotor of the molecular drag pumping mechanism has associated therewith two parallel pumping paths comprising a pumping path radially inward of the rotor and a pumping path radially outward of the rotor.

8. (Previously Presented) The vacuum pumping arrangement as claimed in claim 1, wherein the molecular drag pumping mechanism is of a holweck type.

9. (Previously Presented) The vacuum pumping arrangement as claimed in claim 1, further comprising a second molecular drag pumping mechanism having a rotor, wherein the rotor of the second molecular drag pumping mechanism is supported by a rotor of a regenerative pumping exhausting mechanism.

10. (Previously Presented) The vacuum pumping arrangement as claimed in claim 1,

wherein the rotor of the molecular drag pumping mechanism is made from a carbon fiber composite material.

11. (Previously Presented) The vacuum pumping arrangement as claimed in claim 1, wherein the rotor blades of the turbomolecular pumping mechanism are made from aluminum.

12. (Cancelled)

13. (Cancelled)

14. (Cancelled)

15. (Cancelled)

16. (Previously Presented) The vacuum pumping arrangement as claimed in claim 7, wherein the molecular drag pumping mechanism is of a holweck type.

17. (Cancelled)

18. (Previously Presented) The vacuum pumping arrangement as claimed in claim 5, further comprising a second molecular drag pumping mechanism having a rotor, wherein the rotor of the second molecular drag pumping mechanism is supported by the rotor of a regenerative pumping exhausting mechanism.

19. (Previously Presented) The vacuum pumping arrangement as claimed in claim 8,

Application No. 10/536,781

Amendment dated January 14, 2010 Reply to Office Action of September 16, 2009

Attorney Docket No.: M02B162

further comprising a second molecular drag pumping mechanism having a rotor, wherein

the rotor of the second drag pumping mechanism is supported by the rotor of a

regenerative pumping exhausting mechanism.